AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the present application.

IN THE CLAIMS:

1-24. (Canceled).

mutant modified protein exhibiting alkaline liquefying α-amylase activity at a pH optimum of 8-9 and having possessing an amino acid sequence which that differs from has been obtained by modifying an amino acid sequence described in SEQ ID NO:2 by substitution, deletion, or insertion of one amino acid in a manner in which one amino acid is substituted, deleted, or inserted without changing enzymological properties of a protein having the amino acid sequence described in SEQ ID NO:2 and wherein said modified protein hydrolyzes 1,4 α glucosidic linkages in starches, amylose, amylopectin, and degradation products thereof and in amylose forms: glucose, maltose, maltotriose, maltotetrose, maltopentose and maltohexose and does not hydrolyze pullulan.

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- 26. (Currently Amended) The <u>isolated</u> DNA molecule of claim 25, further comprising which is operably linked to a nucleotide sequence for regulating expression of the DNA molecule.
- 27. (Previously Presented) A recombinant DNA comprising the DNA molecule of claim 25.
 - 28. (Canceled).
- 29. (Previously Presented) The DNA molecule of claim 25, wherein said encoded protein has an isoelectric point higher than 8.5 when measured by isoelectric focusing electrophoresis.
 - 30. (Canceled).
- 31. (Currently Amended) The DNA molecule of claim 25, which encodes a protein exhibiting alkaline liquefying α -amylase activity at a pH optimum of 8 9, comprising at least one nucleotide sequence selected from the group consisting of SEQ ID NO: 10, SEQ ID NO: 7, SEQ ID NO: 3, SEQ ID NO: 6 and SEQ ID NO: 9.
- 32. (Currently Amended) The DNA molecule of claim 25, which encodes a protein exhibiting alkaline liquefying α amylase activity

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at a pH optimum of 8 9 comprising at least one nucleotide sequence that is the reverse complement of a sequence selected from the group consisting of SEQ ID NO: 8, SEQ ID NO: 5, SEQ ID NO: 4 and SEQ ID NO: 11.

33. (Currently Amended) The DNA molecule of claim 25, which encodes a protein exhibiting alkaline liquefying α amylase activity at a pH optimum of 8–9—comprising at least one nucleotide sequence selected from the group consisting of SEQ ID NO: 10, SEQ ID NO: 7, SEQ ID NO: 3, SEQ ID NO: 6 and SEQ ID NO: 9, and also comprising at least one nucleotide sequence that is the reverse complement of a sequence selected from the group consisting of SEQ ID NO: 8, SEQ ID NO: 5, SEQ ID NO: 4 and SEQ ID NO: 11.

34-43. (Canceled).